Environmental Management Performance Report

January 2001

A chemical injection tanker used for ISRM

DR Reactor

Newly opened ERDF Cells #3 and #4

183-KE/KW

Concrete demolition at the 100 F Area

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end November.
All other data as of December 21 (unless otherwise noted).

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0101002.3

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2001

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ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2001

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B - Restoring the River Corridor Project Summaries, and Section C - Transitioning the Central Plateau Project Summaries. All cost, schedule, milestone commitments, performance measures, and safety data is current as of November 30. Accomplishments, Issues and Integration items are current as of December 21, unless otherwise noted.

Section A – Executive Summary. This section provides an executive level summary of Bechtel Hanford, Inc.'s (BHI) performance information for the current reporting month and is intended to bring to Management's attention that information considered to be most noteworthy. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective cleanup. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones, and FY01 Environmental Management (EM) corporate performance measures. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date ERC Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

Section B – Restoring the River Corridor. This section contains more detailed monthly activity information and performance status for the three projects within the 'Restoring the River Corridor' outcome. These three projects consist of the Remedial Action and Waste Disposal (RAWD) Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

Section C – Transitioning the Central Plateau. This section contains more detailed monthly activity information and performance status for the two projects within the 'Transitioning the Central Plateau' outcome. These two projects consist of the Groundwater/Vadose Zone (GW/VZ) Integration Project and the Surveillance/Maintenance and Transition (SM&T) Projects.

Information in this report is identified with a green, yellow, or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements; yellow indicates that significant improvement is required; and red indicates unsatisfactory conditions requiring immediate corrective actions.

Section A: Executive Summary

SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end November.
All other data as of December 21, 2000 (unless otherwise noted).

NOTABLE ACCOMPLISHMENTS:

RIVER CORRIDOR:

The first of several shipments of ion exchange modules was received from K Basins on November 28 and disposed in ERDF. The shipment was unloaded onto the floor of Cell #4 using a crane. Considerable cost savings will be realized compared to previous disposal methods.

The 100 B/C Area pipeline remediation contract was awarded on November 28. A Tri-Party Agreement (TPA) change request is being prepared that will establish two new interim milestones for the start and completion dates for the 100 B/C pipeline remediation workscope.

Remobilization activities were completed at the 100 H Operable Unit on November 29 due to additional plumes encountered during confirmation sampling. Further excavation is required to remove 6,804 metric tons (7,500 tons) of additional waste.

The first draft Cleanup Verification Package (CVP) for the 100 H Operable Unit was delivered to the regulators for review. This draft is the first CVP that incorporates a streamlined approach for regulator approval. If accepted, significant time and cost savings could be realized.

Removal of the cover panels from the 116-N-3 Crib progressed during November in the 100 N Area, even though significantly higher radiation levels caused changes in remediation methodology. Demolition of the highly contaminated crib cover panels and concrete girder supports is being performed while buried under dirt, along with additional dust suppression, due to high contamination levels. Higher than expected contamination levels have resulted in revisions to the methods of demolition and removal of the crib components in order to achieve as low as reasonably achievable (ALARA) goals.

Green

On November 30, the procurement package for the remediation of the J.A. Jones and 600-23 waste sites (near the Wye Barricade) was issued for bid proposals. A site walkdown and an amendment with clarifications were also completed. The contract was awarded on December 11 and contractor mobilization began.

Reactor ISS progressed at both F and DR Reactors. Preparations to begin pourbacks at both reactors in December are in progress. ISS design and removal of hazardous material continued at D and H Reactors.

Removal of seven vessels within the 233-S Plutonium Concentration Facility is being accelerated from the outyears into FY01 and FY02. The total 15 vessels are now scheduled for removal by June. The project is being rebaselined to accommodate the new FY01-FY02 activities. A portion of the accelerated scope is an initiative challenge to be paid for through efficiencies accomplished when performing other ER work. Accelerating vessel removal will allow for completion of 233-S decommissioning approximately one year early and provide a significant dollar savings (the new completion date will be in late FY04).

A waste management/transportation workflow process with time and resource requirements was developed as part of the ERC effort to improve the efficiency for designating, packaging, and shipping of waste. This process improvement, using the Six Sigma productivity improvement methodology, will increase the overall ability of the ERC to manage a higher volume of waste while continuing to meet regulatory deadlines and project schedules.

NOTABLE ACCOMPLISHMENTS continued:

Work progressed in developing the ER Project Baseline Update (multi-year work plan). This update, originally planned for completion on December 15, is now planned to be complete by January 10, to incorporate DOE adjustments.

CENTRAL PLATEAU:

The Groundwater/Vadose Zone (GW/VZ) Integration Project completed history matching on release models and the ecological risk assessment model for the System Assessment Capability (SAC) Rev. 0. This effort successfully demonstrated that the results predicted by SAC Rev. 0 were consistent with predictions made with past assessments. The models are now ready for use in the initial assessment.

The first phase of the In Situ Redox Manipulation (ISRM) Project was completed two months ahead of schedule on November 1, which satisfied completion of TPA Milestone M-16-27A (due December 31). Phase I included installing 16 wells and successfully injecting/withdrawing chemicals from ten of the wells.

Installation of the ten planned Resource Conservation and Recovery Act (RCRA) wells is nearing completion and is expected to be completed by December 31 to meet TPA Milestone M-24-00L.

The soil gas/groundwater sample and analysis plan was revised regarding the tritium investigation of the 618-11 Burial Ground. Results were also received from the groundwater grab samples and are being evaluated.

Green

All groundwater pump and treat systems operated above the planned 90% availability levels in November. Since system inception, the five pump and treat systems have processed over 4.5 billion liters of groundwater, removing approximately 4,812 kilograms of carbon tetrachloride, 208 kilograms of chromium, and 0.92 curies of strontium. Approximately 210 million liters of groundwater have been processed in FY01, removing approximately 230 kilograms of carbon tetrachloride, 14 kilograms of chromium, and 0.038 curies of strontium.

A TPA change package was approved by the regulators on November 6 that replaced the 200-PW-4 operable unit work plan with the 200-PW-1 operable unit work plan, which has higher risk sites for carbon tetrachloride contamination.

Major roof repairs were completed at B Reactor. Repairs included sealing damaged roof sections, caulking joint cracks on the concrete panels, and isolating the supply ventilation ducting leading into the building. Ductwork was also sealed.

Interim stabilization activities were initiated at the 218-W-2A waste burial site. The burial ground is an industrial waste burial site that contains 19 trenches of miscellaneous radioactive solid waste from facilities located in the 200 West Area.

A TPA change request was approved that revised the completion date for the B Reactor Surveillance and Maintenance Plan from June 30, 2001 to a "to be determined" date.

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Green

Fourteen TPA milestones are planned for completion during FY01. Through November, two milestones have been completed, both ahead of schedule. For November, TPA Milestone M-16-27A, "Complete 100-HR-3 Phase I In Situ Redox Manipulation Barrier Emplacement", (due December 31) was completed on November 1, two months ahead of schedule.

Three milestones are currently unrecoverable. Discussions have been held with the regulators who have indicated their approval of the changes. A TPA change request is nearing completion for M-16-26B, "Complete Remediation, Backfill, and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100 BC, 100 DR, and 100 HR Operable Units" (due February 28, 2001). Two new interim milestones are being proposed that will establish the start and completion dates for the 100 B/C pipeline remediation. A TPA change request will be prepared in the February timeframe for M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit" (due May 31, 2001). This milestone is being impacted by elevated chromium levels in the 100 H Area. A TPA change request will be prepared in the March timeframe to revise M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (Excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling", (due September 30, 2001). Backfill/regrade in the 300 Area is being deferred until a Kd uranium leachability study is completed.

Total Tri-Party Agreement Milestones Due in FY01	***14***
Total Planned Through November	*0*
Total Completed Through November	*2*

Remaining Tri-Party Agreement Milestones to be Completed in FY01	*12*
Forecast Ahead of Schedule	*6*
Forecast On Schedule	*3*
Forecast Unrecoverable	*3*

EM Corporate Performance Measures:

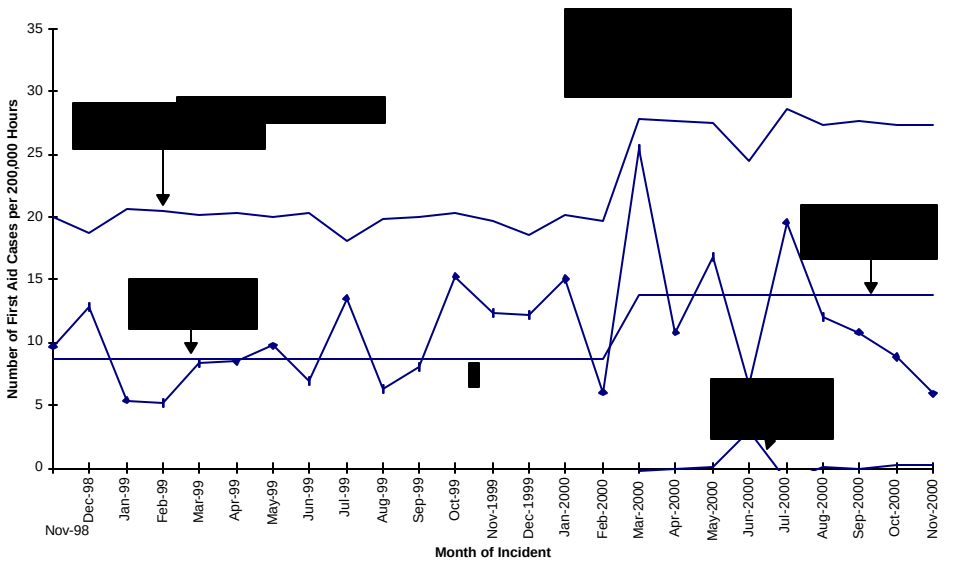
Green

	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Forecast for FY01	Completed YTD
Waste Site Excavations	*12*	*12*	*16*	*16*	*3*
****Technology Deployments***	*0*				

**A technology deployment plan will be developed in January 2001 as identified in the DWP.*

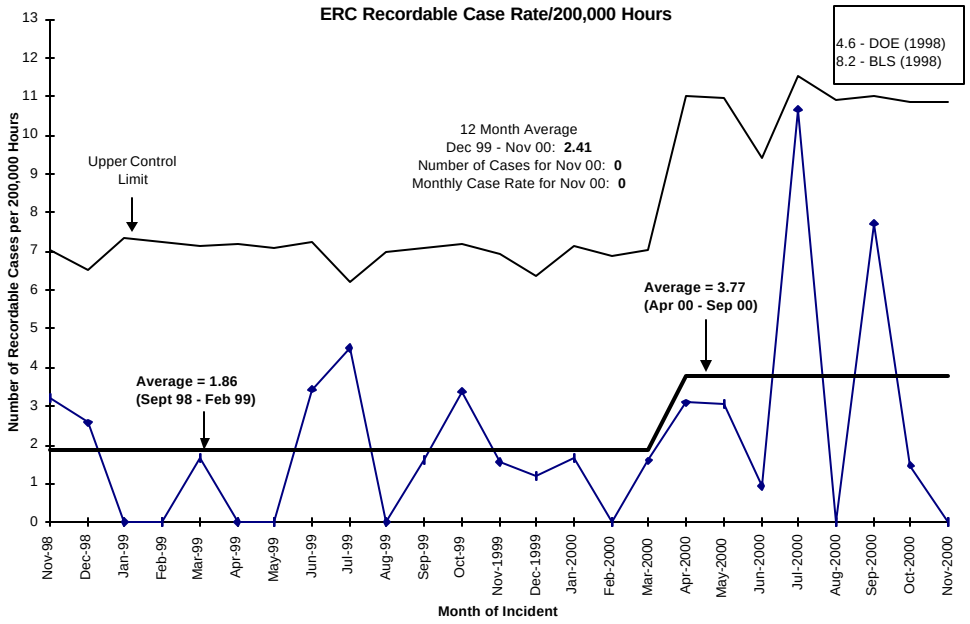
SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract):

Green



The ERC first aid case rate for the past four months indicates a favorable trend in incident reduction.

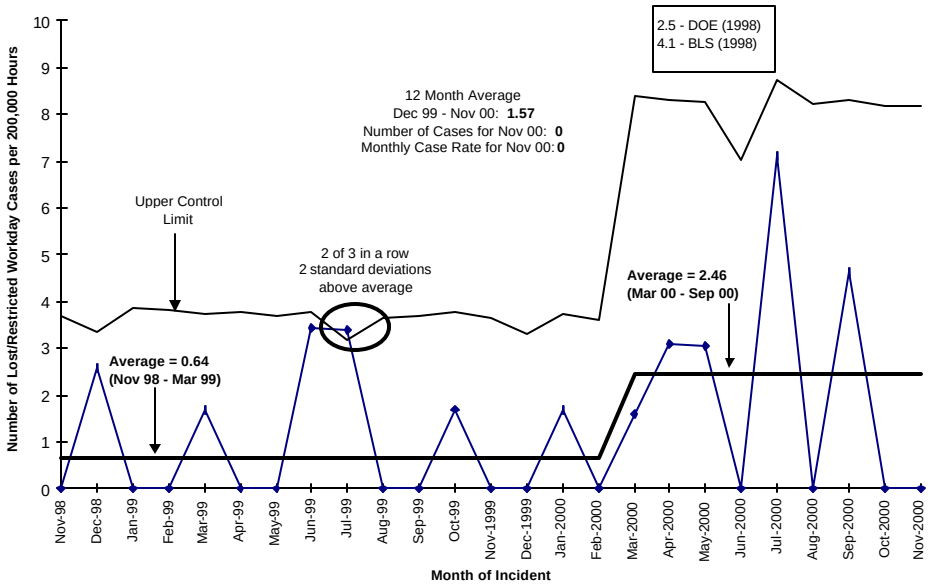
Green



The ERC did not experience a Recordable Case during November.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

Green



The ERC has not experienced a Lost/Restricted Workday Case in the last two months.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

Safety:

	YTD	Current Month (Nov)	Current Month Comments
First Aid	*11*	*4*	*(1) contusion, (1) bite, (1) strain, (1) irritation*
OSHA Recordable	*1*	*0*	*N/A*
Restricted Workday Case	*0*	*0*	*N/A*
Lost Workday Case	*0*	*0*	*N/A*

Green

The ERC, as of December 16, 2000, reports 129,850 hours since the last lost workday incident. The incident occurred on November 13, 2000 and became a lost time on November 15, 2000.

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

ISMS:

DOE EM Performance Agreement: *Maintain and improve the approved Integrated Safety Management System (ISMS).*

Green

Status:

- *Implementation of the new hazard evaluation process continued. A surveillance of the new process was completed to identify potential problem areas which need extra attention to ensure the process is appropriately implemented.*
- *Held a meeting with DOE to discuss the process to be used to review, update, and submit for RL approval, safety performance objectives, performance measures, and commitments.*
- *Continued employee awareness of ISMS through the ISMS Question of the Day Program.*
- *Actively supported the Hanford hosted DOE ISMS Workshop; participated in planning the workshop, coordinating breakout sessions, giving presentations, providing a poster display, and attending the workshop.*

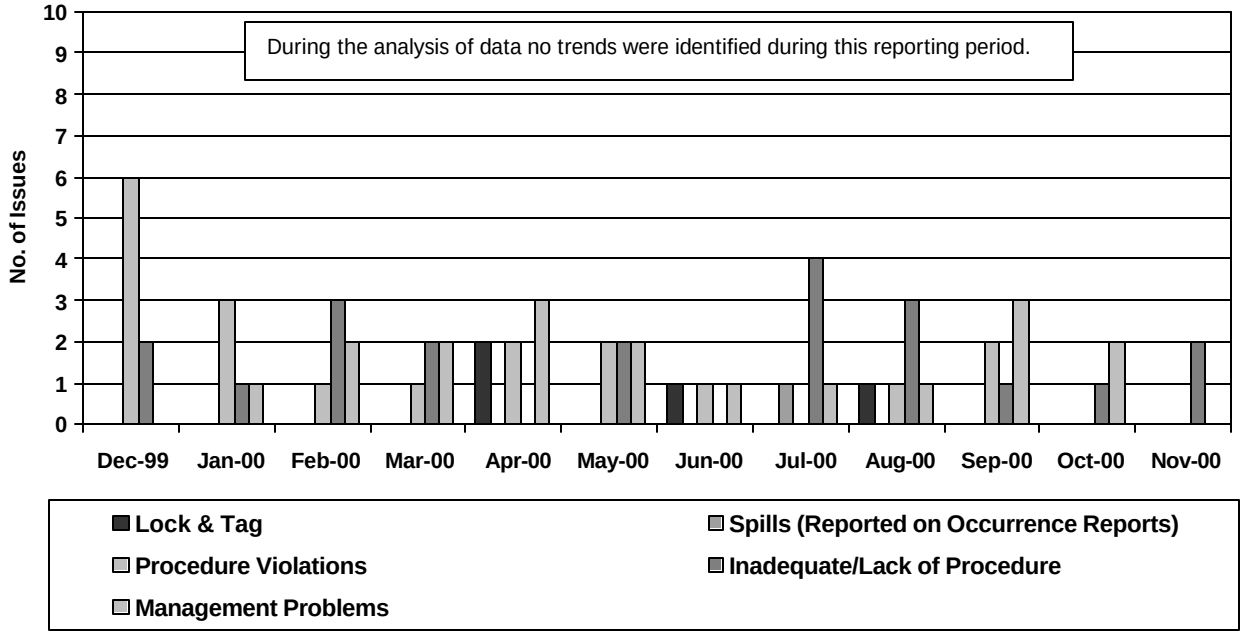
Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 12/1/99 through 11/30/00

	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00
Lock & Tag	0	0	0	0	2	0	1	0	1	0	0	0
Spills (Reported on Occurrence Reports)	0	0	0	0	0	0	0	1	0	0	0	0
Procedure Violations	6	3	1	1	2	2	1	0	1	**2	0	0
Inadequate/Lack of Procedure	2	1	3	2	0	2	0	4	3	1	*1	2
Management Problems	0	1	2	2	3	2	1	1	1	3	**2	0

* Trend data not received until November.

**Trend data for one item not received until November.



November Conduct of Ops Issues Continued on Next Page...

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

November Conduct of Ops Issues:

Procedure Problem:

Condition Description*: Documents such as the ISRM and HR3/KR4 Remedial Design Report and Remedial Action Work Plans (DOE/RL 99-51 and DOE/RL 96-90) contain requirements that are approved by the regulators and are legally enforceable. These documents also reference internal BHI procedures that satisfy the requirements in the above two regulatory documents. BHI documents such as the Field Logbooks Procedure 1.5 in the Environmental Investigation Procedures (BHI-EE-01, Procedure 1.5) and the Field Support Operating Procedures (BHI-FS-04) specify the requirements for field sampling procedures and data and record keeping of field screening results, groundwater elevations, groundwater contaminant concentrations, purged water volumes, and other pertinent information. There is no documentation of evidence that the project personnel are familiar with all the requirements in these enforceable documents. Also, in some cases, the requirements in the two procedures mentioned above are inconsistent and not being met as intended.*

Corrective Action Plan: *BHI-FS-04, Vol. 1, D-100-002, will be revised to address recordkeeping requirements consistent with BHI-EE-01, Procedure 1.5, and a sampling logbook will be provided for project personnel. This procedure will also be revised to eliminate the requirement for alkalinity testing. Target completion date is 2/15/01. A process sampling and analysis plan will be prepared to document requirements for field screening. Target completion date is 3/01/01.*

Green

Condition Description: *The instrument specialist who prepares the chromium standards stated that they are not NIST traceable. The chromium standard used by the NPO is not labeled with the units for the concentration of the standard; all that was provided was 0.09. The label on the standard was also not initialed by the preparer, nor was it tracked with a unique number. Because the standards used for the project are prepared at a separate location and consist of many standards related to a number of field screening analyses performed on groundwater projects, it is recommended that a separate assessment be performed at the facility used by the instrument specialists at 100 N.*

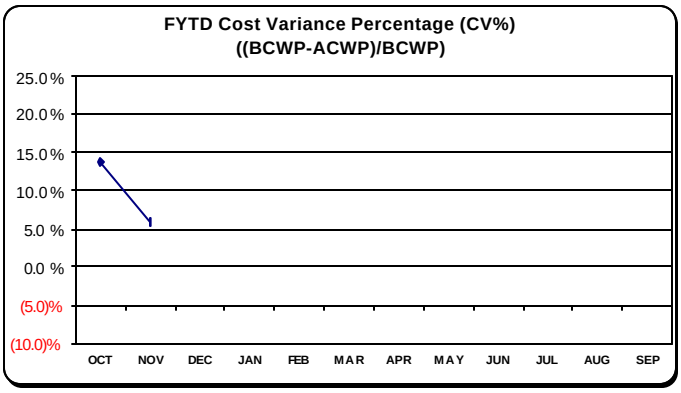
Corrective Action Plan: *Project procedures were reviewed for requirements on the preparation of standards. Conduct cost/benefit analysis of alternatives for standards preparation (i.e., prepare at 100-N Water Plant, purchase vendor-supplied standard, etc.) Target completion date is 1/15/01. If analysis determines that it is appropriate to have instrument technician prepare standards at 100-N water plant, develop procedure. Target completion date is 2/15/01.*

Green

REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

Refer to individual Project issues in the following Section B and Section C.

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):

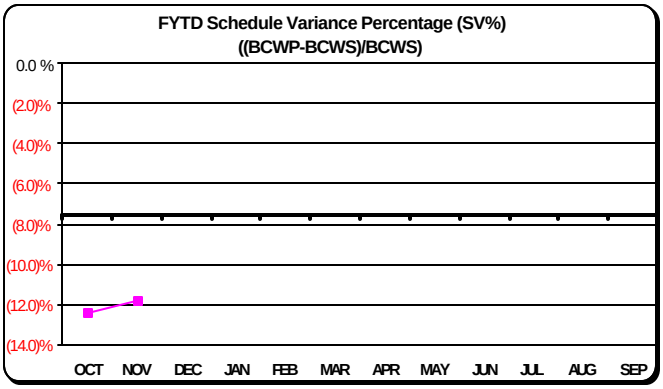


Green

Desired performance is better than –5.0%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	EAC w/ Carry Over
CURRENT PERIOD													
ACWP	9,656	10,998										16,615	
BCWP	11,195	10,749										15,991	
FISCAL YEAR TO DATE													
ACWP	9,656	20,654											
BCWP	11,195	21,944											
CV	1,539	1,290											
CV%	13.7%	5.90											
EAC (Cumulative)	9,656	20,654	38,593	51,672	63,890	76,981	93,506	106,275	119,331	134,022	146,852	160,550	160,963
Yr End Budget Variance	195	957											

For variance explanation by PBS, see Project Status Section of each project.



Green

Desired performance is better than –7.5%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,110	10,286	12,233	10,282	10,058	11,813	14,703	11,619	11,559	13,381	11,497	13,404
DWP (Accum)	11,110	21,396	33,629	43,911	53,968	65,781	80,484	92,103	103,662	117,043	128,540	141,944
CURRENT PERIOD												
BCWS	12,782	12,103	15,644	11,609	11,572	13,576	16,755	12,659	12,826	14,675	12,890	14,415
BCWP	11,195	10,749										
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	40,529	52,138	63,710	77,287	94,041	106,700	119,526	134,202	147,091	161,507
BCWP	11,195	21,944										
SV	(1,587)	(2,940)										
SV%	-12.4%	-11.8%										

For variance explanation by PBS, see Project Status Section of each project.

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

FY01 PERFORMANCE
FYTD NOVEMBER 2000
($K)

	FY01 DWP	CURRENT	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		
	BCWS	BCWS	BCWS	BCWP	ACWP	$	%	$	%	EAC
ER01 100 Area R/A	29617	31417	3949	3671	3472	-278	-7.0%	199	5.4%	30770
ER03 300 Area R/A	4127	4518	487	338	254	-149	-30.6%	84	24.9%	4426
ER04 ER Waste Disposal	17420	18070	2607	2867	2466	260	10.0%	401	14.0%	18076
RA-Subtotal	**51164**	**54005**	**7043**	**6876**	**6192**	**-167**	**-2.4%**	**684**	**9.9%**	**53272**
ER02 200 Area R/A	443	4986	377	256	213	-121	-32.1%	43	16.8%	4913
ER08 GW Management	24942	29524	4649	3787	3697	-862	-18.5%	90	2.4%	29825
VZ01 GW/VZ	10833	11885	2407	1862	1788	-545	-22.6%	74	4.0%	12049
GW/VZ-Subtotal	**36218**	**46395**	**7433**	**5905**	**5698**	**-1528**	**-20.6%**	**207**	**3.5%**	**46787**
ER06 D&D	7195	9968	2667	2267	2236	-400	-15.0%	31	1.4%	9945
DD-Subtotal	**7195**	**9968**	**2667**	**2267**	**2236**	**-400**	**-15.0%**	**31**	**1.4%**	**9945**
ER05 S&M	13024	14249	2289	2138	2002	-151	-6.6%	136	6.4%	14112
ER07 Long-Term S&M	59	59	2	2	0	0	0.0%	2	100.0%	58
SM-Subtotal	**13083**	**14308**	**2291**	**2140**	**2002**	**-151**	**-6.6%**	**138**	**6.4%**	**14170**
ER10 ERC PM&S	28984	30449	4538	4447	4217	-91	-2.0%	230	5.2%	30408
ER10 RL PM&S	5300	6381	913	309	309	-604	-66.2%	0	0.0%	6381
PM-Subtotal	**34284**	**36830**	**5451**	**4756**	**4526**	**-695**	**-12.7%**	**230**	**4.8%**	**36789**
GRAND TOTAL	**141944**	**161506**	**24885**	**21944**	**20654**	**-2941**	**-11.8%**	**1290**	**5.9%**	**160963**

Green

Cost/Schedule Status:

Cost Variance Summary

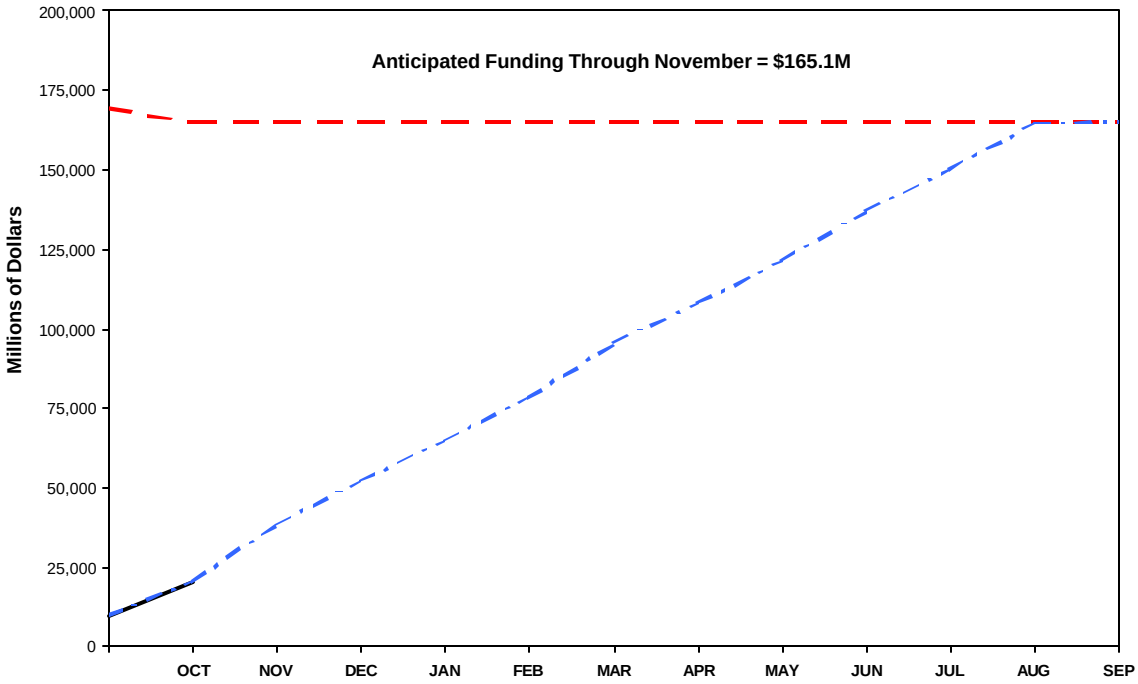
At the end of November, the ER Project had performed $21.9M worth of work, at a cost of $20.7M. This results in a favorable cost variance of $1.3M (+5.9%). The positive cost variance is attributed to less labor required to complete remediation closeout verification packages (CVPs) due to use of a streamlined format and consolidation of waste sites; increased remediation quantities have resulted in lower unit costs (economies of scale); shifting craft personnel between remediation sites has resulted in labor and supervision savings.

Schedule Variance Summary

Through November, the ER Project is $2.9M (-11.8%) behind schedule. The negative schedule variance is attributed to unplanned utilization of RCRA well drilling crews to support the 618-11 Burial Ground tritium investigation; groundwater modeling and monitoring activities delayed while completing FY00 carryover high-priority work; higher than anticipated radiation levels at 100-NR-1 crib is slowing remediation work; asbestos abatement at D and H Reactor ISS delayed to incorporate late request for documentation changes to the Removal Action Work Plan; late start on some 233-S work to allow additional radiation safety analysis; and late billing of site-wide assessments.

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

FY2001 Funds Management



			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2001	
	ANTICIPATED FUNDING		169,632	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	165,100	Est. Sch. Carryover	EAC TOTAL
	APPROVED SCOPE															
1	**Actual Cost**		9,656	20,654												
2	**Current Monthly EACs**		9,656	10,998	17,939	13,078	12,218	13,090	16,524	12,770	13,056	14,691	12,830	13,699		
3	**Cumulative EAC**		9,656	20,654	38,593	51,671	63,889	76,979	93,503	106,273	119,329	134,020	146,850	160,549	413	160,963
	DECEMBER FY2001 APPROVED BCP'S															
4	ER08	BCP-21026 Uranium Investigation Support to EM-50			0	20	0	0	0	0	0	0	0	0	0	20
5	**Subtotal Approved Scope Changes**				**0**	**20**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**20**
	FY2001 PENDING BCP'S															
6	ER01, 03 &04	BCP-21045 Remedial Action Scope Reduction due to Funding Reduction				(61)	(61)	(61)	(61)	(612)	(252)	(252)	(251)		0	(1,611)
7	ER03	BCP-21045 300-FF-2/1 Regrade Deferral, Leachability Study									(75)	(75)	(75)	(76)	0	(301)
8	ER05	BCP-21066 S/M&T Scope Reductions due to Funds Reduction (Additional S&T Scope Pending; Offsets Reduction)											(600)		0	(600)
9	ER06	BCP-21002 Continue 100 Area Reactors ISS				913	959	972	1,069	797	1,347	1,399	1,092	1,095	0	9,643
10	ER08	BCP-21003 Borehole Brilling Support (Grand Junction)										241	254	305	0	800
11	ER02	BCP-21076 Defer 200-CS-1 Field Scope Into FY02			(33)	(17)	(54)	(180)	(280)	(95)	(51)	(27)	(23)	(11)	0	(771)
12	ER08/W Z01	BCP-21067 GW/VZ Reductions due to Funds Reduction				(81)	(81)	(81)	(81)	(81)	(81)	(81)	(81)	(82)	0	(730)
13	VZ01	BCP-21029 FY00 into FY01 Carryover for Sandia Lab & Argonne Nat'l Lab			105	106									0	211
14	ER10	FCP-21068 PM&S Scope Reductions due to Funds Reduction												(200)	0	(200)
15	ALL	Pending Scope Reductions/Efficiencies			(232)	(232)	(232)	(232)	(232)	(232)	(233)	(233)	(233)	(233)	0	(2,324)
16	**Subtotal December FY2001 Approved BCPs + Pending BCPs**				**(160)**	**648**	**531**	**418**	**415**	**(223)**	**655**	**972**	**83**	**798**	**0**	**4,137**
17	**Current Monthly EAC + December FY2001 Approved BCP's & Pending BCP's**		**9,656**	**10,998**	**17,779**	**13,726**	**12,749**	**13,508**	**16,939**	**12,547**	**13,711**	**15,663**	**12,913**	**14,497**		**-**
18	**Cumulative EAC + December FY2001 Approved BCP's & Pending BCP's**		**9,656**	**20,654**	**38,433**	**52,159**	**64,908**	**78,416**	**95,355**	**107,902**	**121,613**	**137,276**	**150,189**	**164,686**	**413**	**165,100**

PERFORMANCE OBJECTIVES:

Refer to individual Project information in the following Section B and Section C.

KEY INTEGRATION ACTIVITIES:

RIVER CORRIDOR:

Safety and Health: *BHI actively supported the DOE ISMS Workshop held in Pasco, Washington on December 5-6. 31 BHI personnel registered for the workshop, and a poster display was developed. BHI gave five presentations, and five individuals served as Breakout Session Coordinators/Support Personnel. BHI's President participated in the Environmental Management panel discussion.*

Environmental Technologies: *A herbicide spray schedule was completed for the Hanford waste sites. ER worked with FH, and CHG to integrate spraying activities and maximize effectiveness of equipment and personnel resources across the Hanford Site.*

A CERCLA training module was developed and presented to contractors and DOE personnel at the DOE's Paducah Site in Kentucky. The training module, requested by the Paducah ER Program, focused on the ER lessons learned and streamlining successes achieved at the Hanford Site during the past six years.

Technology Applications: *BHI participated jointly with RL and FH in a presentation at the Technology Information Exchange Conference in Augusta, Georgia on November 14. The presentation addressed the calculation of benefits derived from deployment of new and innovative technologies.*

CENTRAL PLATEAU:

ER continues to work closely with the River Protection Project (RPP) on vadose zone project plans and issues. RPP project manager presents related GW/VZ status to ER management at monthly ER project reviews.

Green

UPCOMING PLANNED KEY EVENTS:

Tri-Party Agreement Milestone M-13-25, Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan, due 12/31/00.

Tri-Party Agreement Milestone M-13-00K, Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan, due 12/31/00.

Tri-Party Agreement Milestone M-24-47, Install 4 Additional Wells at SST WMA T, due 12/31/00.

Tri-Party Agreement Milestone M-24-48, Install 4 Additional Wells at SST WMA TX-TY, due 12/31/00.

Tri-Party Agreement Milestone M-24-00L, Install RCRA Groundwater Monitoring Wells Up to 50 in CY 2000, due 12/31/00.

Green

Environmental Management Performance Report

January 2001

Section B - River Corridor Information

- **Remedial Action and Waste Disposal Project**
- **Decommissioning Projects (Interim Safe Storage and 233-S)**
- **Program Management and Support**

F Reactor

Pipe removal activities in the 100 F Area

ERDF Cell #4

DR Reactor

233-S

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end November.
All other data as of December 21 (unless otherwise noted).

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0101002.1

Remedial Action and Waste Disposal Project (RAWD)

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end November.
All other data as of December 21, 2000 (unless otherwise noted).

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: *RAWD*

ERDF Transportation and Operations (ERDF): *The first of several shipments of ion exchange modules was received from K Basins on November 28 and disposed in ERDF. It was unloaded onto the floor of Cell #4 using a crane. Considerable cost savings will be realized compared to previous disposal methods.*

During November, shipments totaling 32,195 metric tons (35,489 tons) of contaminated waste were transported to the ERDF. 66,580 metric tons (73,392 tons) of waste have been received in FY01. To date, 2,373,342 metric tons (2,616,175 tons) of material have been received and placed in the disposal facility.

100 B/C Area Remediation: *The subcontract for the 100 Area B/C pipeline remediation was awarded on November 28. Mobilization activities have begun.*

100 D Area Remediation: *The regulators agreed to proceed with the remaining 100 D Area backfill and closeout activities. The subcontractor is scheduled to return in late December to complete the backfill of the remaining sites.*

100 F Area Remediation: *During November, removal of the 1.1-meter (42-inch) diameter reinforced concrete pipeline was completed between the reactor building and the retention basin.*

100 H Area Remediation: *Remobilization activities were completed at the 100 H Operable Unit on November 29 due to additional plumes encountered during confirmation sampling. Further excavation is required to remove 6,804 metric tons (7,500 tons) of additional waste at the 100-H-24 substation (PCBs), the 116-H-7 retention basin (PCBs), and 100-H-21 pipelines (lead).*

The first draft Cleanup Verification Package (CVP) for the 100 H Operable Unit was delivered to the regulators for review. This draft is the first CVP that incorporates a streamlined approach for regulator approval. If accepted, significant time and cost savings could be realized.

The test pit and sampling in the 116-H-7 retention basin was completed. The sampling is being done to develop an elevation profile of hexavalent chromium and nickel-63 contamination from the bottom of the retention basin to ground water.

BHI began working with Pacific Northwest National Laboratory (PNNL) to develop a leachate study plan for hexavalent chromium contamination in the 100 H Operable Unit. This study is similar to the leachate study completed at the 100 D Operable Unit that increased the remedial action goal for hexavalent chromium, at 100 D Area, from 2.2 mg/kg to 6.0 mg/kg.

100 N Area Remediation: *Removal of the cover panels from the 116-N-3 Crib progressed during November in the 100 N Area, even though significantly higher radiation levels caused changes in remediation methodology. Demolition of the highly contaminated crib cover panels and concrete girder supports is being performed while buried under dirt, along with additional dust suppression, due to high contamination levels. Higher than expected contamination levels have resulted in revisions to the methods of demolition and removal of the crib components in order to achieve as low as reasonably achievable (ALARA) goals. Removal of the main trough system will commence following demolition of the cover panels in December.*

Green

ACCOMPLISHMENTS continued: *RAWD*

Final approval of the 116-N-1 Auditable Safety Analysis/Final Hazard Classification (ASA/FHC) document is expected in December. Efforts continued in updating the Engineering Evaluation/Cost Analysis (EE/CA) for the 100-N Area Ancillary Facilities Integration Plan.

100/300 Area Assessments: *The data quality objective (DQO) report and draft sample analysis plan (SAP) for the 300 Area Kd leachability study were completed in November. The draft SAP was completed one month ahead of schedule. Significant time and cost savings have resulted by combining the 100 Area Burial Ground and the 300 Area Design data quality objectives (DQO's).*

300 Area Remediation: *Bids were received and evaluated for the 300 Area South Process Pond security fence. The contract was awarded, and Notice To Proceed was issued on November 29. Work will begin in December and will be completed within 45 days.*

Backfill, regrading, and revegetation of the 300-FF-1 operable unit will be deferred to FY02 due to the required Kd leachability study. Results of the Kd study is expected to provide a better understanding of uranium mobility in 300 Area soils and has a potential to affect the cleanup standard for the 300-FF-1 operable unit.

300/600 Area Remediation: *On November 30, the procurement package for the remediation of the J.A. Jones and 600-23 waste sites was issued for bid proposals. A site walkdown and an amendment with clarifications were also completed. Contract awarded December 11 and contractors have begun mobilizing.*

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: *RAWD*

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *RAWD*

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *RAWD*

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *RAWD*

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *RAWD*

- ***TPA Milestones:***

Milestone	Description	Due Date	(F) / (A) Date
M-16-26B	*Complete Remediation, Backfill and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area*	*2/28/01*	*2/25/05 (F)**
M-16-26C	*Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area*	*5/31/01*	*9/28/01 (F)***
M-16-07B	*Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Units as defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area*	*7/31/01*	*2/14/01 (F)*
M-16-03E	*Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to include Excavation, Verification, and Backfilling*	*9/30/01*	*9/30/02 (F)****
M-16-00F	*Establish Date for Completion of all 100 Area Remedial Actions*	*12/31/01*	*12/31/01 (F)*

Green

**Unrecoverable due to prior year funding constraints. Bid proposals were received on September 29 for the 100 B/C pipeline remediation, and contract was awarded on November 28. A Tri-Party Agreement (TPA) change request is being prepared establishing two new interim milestones that will identify the start and completion dates of the 100 B/C pipeline remediation workscope. Regulators have reviewed the draft change request and comments are being incorporated.*

***Elevated chromium levels were detected during closeout verification sampling. A TPA change package will be prepared after impacts have been evaluated. Regulators concur with path forward.*

****Per regulator request, a Kd study to determine if uranium leachability is required prior to 300-FF-1 backfill. A TPA change package will be prepared in March timeframe.*

- ***DNFSB Commitment:***

None identified at this time.

PERFORMANCE OBJECTIVES: *RAWD*

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
RAWD	*70%*	*80%*	• *490,000 Tons by 9/30/01*	*On schedule.*
		10%	• *Backfill 16 Sites by 9/30/01*	*On schedule.*
		10%	• *50,000 Additional Tons by 9/30/01* ***(*Stretch)***	*Approximately 30% of Stretch undertaken as of 11/30/00.*
			CV <5.0%; SV <7.5% for grouped PBS ER01, ER03, ER04	

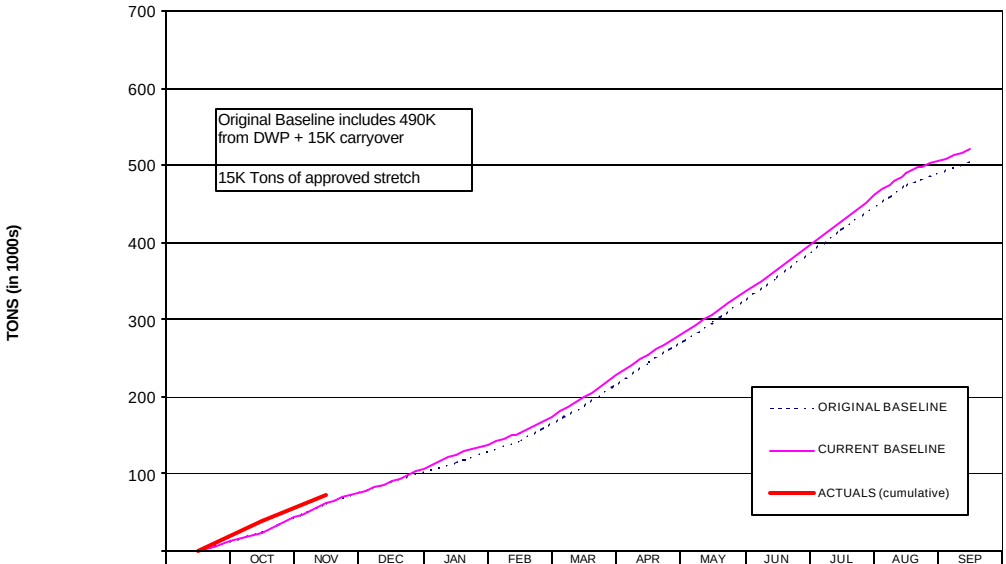
Green

PERFORMANCE MEASURES/METRICS: *RAWD – (River and Plateau)*

	DWP FY01	FY01Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY01	Completed YTD
Waste Sites Excavated	*12*	*12*	*16*	*16*	*3*

Green

Remedial Action and Waste Disposal Project
Cumulative Tons to ERDF



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
ORIGINAL BASELINE		24	61	89	114	142	188	244	296	355	417	474	505
CURRENT BASELINE		24	61	89	125	153	199	255	307	366	428	489	520
ACTUALS (cumulative)		38	73										

MONTH

STRETCH AND SUPERSTRETCH GOALS: *RAWD*

FY01 RAWD "Stretch" Goals	Estimated Tons (K)	Approved Tons (K)
Remediate Additional 50K Tons of Contaminated Soil by 9/30/01	***50K***	
(1) Additional Contamination Soil at 100-F Pipelines		*7.5K*
(2) Additional Contamination Material at 100-H Sites		*8.0K*
S/Total Remedial Action Stretch Goals:	***50K***	***15.5K***

Green

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *RAWD*

- ***Schedule:***

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	$K	$K	$K
ER01 100 Area Remedial Actions	*3,949*	*3,671*	*(278)*
ER03 300 Area Remedial Actions	*487*	*338*	*(149)*
ER04 ER Waste Disposal	*2607*	*2,867*	*260*
TOTAL Remedial Actions	***7,043***	***6,876***	***(167)***

Green

PBS-ER01 – 100 Area Remedial Action
*Schedule Variance = (**$278K); (7.0%)** [Last Month: $64K; 3.3%]*

***Cause:** Slower progress than originally planned at the 100-NR-1 site due to site contamination, radiation, and demolition conditions being different than planned.*

***Resolution:** A baseline change proposal (BCP) is being prepared to address the changes causing the lengthening of the 116-N-3 Crib demolition.*

***Cause:** Increase in waste production quantities due to encountered plumes at the 100 F area remediation site.*

***Resolution:** A BCP is being prepared to reflect actual work sequencing and production rates.*

PBS-ER03 – 300 Area Remedial Action
*Schedule Variance = **($149K); (30.6%)** [Last Month: ($46K); (23.5%)]*

***Cause:** Closeout Verification Package (CVP) scope has not been fully defined by the regulators.*

***Resolution:** Working with regulators to determine CVP scope resolution.*

PBS-ER04 – Environmental Restoration Waste Disposal
*Schedule Variance = **$260K; 10.0%** [Last Month: $218K); 17.4%]*

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued): *RAWD*

Cause: *Reflects increased unit price reductions due to waste disposal volumes from 100 Area remediation sites.*

Resolution: *None.*

- ***Cost:***

Remedial Action & Waste Disposal Project	BCWP $K	ACWP $K	Variance $K
ER01 100 Area Remedial Actions	*3,671*	*3,472*	*199*
ER03 300 Area Remedial Actions	*338*	*254*	*84*
ER04 ER Waste Disposal	*2,867*	*2,466*	*401*
TOTAL Remedial Actions	***6,876***	***6,192***	***684***

Green

PBS-ER01 – 100 Area Remedial Action
Cost Variance = ***$199K; 5.4%*** *[Last Month: $296K; 14.8%]*

Cause: *Less labor and supervision were required than anticipated at the 100 Area waste site by shifting personnel between various sites and avoiding duplication.*

Resolution: *Reflected in EAC. Underrun will be used to perform additional remediation work.*

Cause: *Closeout Verification Packages (CVPs) are requiring less labor than anticipated to prepare due to the use of a "streamlined" format and the consolidation of waste sites. Labor costs have increased for the lead brick survey and have slightly offset CVP savings.*

Resolution: *Reflected in EAC. Underrun will be used to perform additional remediation work.*

Cause: *Increased cost at 100-NR for additional project support requirements arising from higher radiation levels and complexities in performing the work scope.*

Resolution: *Reflected in EAC; a BCP is being prepared to address cost impacts resulting from changes to the plan.*

PBS-ER03 – 300 Area Remedial Action
Cost Variance = ***$84K; 24.9%*** *[Last Month: $38K; 25.3%]*

Cause: *Coordinating design efforts with 100 Area Burial Ground has resulted in data quality objective (DQO) costing less.*

Resolution: *Reflected in EAC. Underrun will be used to perform additional remediation work.*

PBS-ER04 – Environmental Restoration Waste Disposal
Cost Variance = ***$401K; 14.0%*** *[Last Month: $234K; 15.9%]*

Cause: *Increase in remediation quantities has resulted in lower unit costs (economies of scale).*

Resolution: *Reflected in EAC. Underrun will be used to perform additional remediation work.*

REGULATORY ISSUES: *RAWD*

Tri-Party Agreement Milestone M-16-26B: *M-16-26B, "Complete Remediation, Backfill, and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100 B/C, DR, and HR Operable Units" due February 28, 2001, will be missed due to lack of funding in FY99 and FY00 for 100 B/C pipeline remediation activities.*

Green

Status: *Bid proposals were received on September 29 for the 100 B/C pipeline remediation, and contract was awarded on November 28. A TPA change request is being prepared establishing two new interim milestones that will identify the start and completion dates of the 100 B/C pipeline remediation workscope.*

Tri-Party Agreement Milestone M-16-26C: *M-16-26C, "Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit", due May 31, 2001, will be missed due to unanticipated elevated arsenic levels found early in FY00 (resolved) and chromium sample analysis results above the remedial action goals encountered during confirmation sampling/verification activities.*

Green

Status: *When the impact of the elevated chromium results is evaluated, a TPA change package will be prepared.*

Tri-Party Agreement Milestone M-16-03E: *M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling", due 9/30/2001 will be missed due to the Environmental Protection Agency (EPA) requirement of performing a Kd study on uranium leachability. The regrades will not be completed until study results confirm that no further excavations will be required.*

Green

Status: *EPA requires a Kd study to address uranium mobility in the 300 Area. This study will consist of obtaining uranium-contaminated samples and performing leach rates with follow-on absorption tests resulting in a Kd value. A data quality objective (DQO) was completed, and a baseline change proposal prepared to secure funding for the study. A TPA change package will be prepared in March timeframe.*

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *RAWD*

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *RAWD*

None identified at this time.

INTEGRATION ACTIVITIES: *RAWD*

None identified at this time.

Decommissioning Projects (D&D)

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end November.
All other data as of December 21, 2000 (unless otherwise noted).**

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: *D&D*

Reactor Interim Safe Storage (ISS): *Reactor ISS continued to progress at both F and DR Reactors. Preparations to begin pourbacks at both reactors in December are in progress. ISS design and removal of hazardous material continued at D and H Reactors. Significant activities are identified below for each reactor.*

F Reactor ISS:

- *The Readiness Assessment to initiate clean fill removal from the fuel storage basin was completed on November 16. Actual field work in the basin was then initiated on November 28.*
- *The memorandum of understanding (MOU) between Fluor Hanford (FH) and Bechtel Hanford, Inc. (BHI) was approved on November 16 regarding security requirements in the event fuel is discovered in the fuel storage basin. If fuel is found, it will be transported to K Basins.*
- *Completed backfill of the valve pit and solid feeds areas.*
- *Completed well drilling in the transfer pit. Pump piping for the dewatering system was installed and tested.*
- *The contract for BROKK™ equipment was awarded on November 17. The equipment is expected to arrive in late February.*

DR Reactor:

- *Preparations are underway for remobilization of the pourback subcontractor.*
- *Completed final site grading around the reactor.*

D Reactor:

- *Began tile and transite removal in the valve pit and supply fan room.*
- *Began thermal systems insulation abatement in the valve pit and supply fan room.*
- *Began hazardous material removal in the south reactor area, gas recirculation tunnels, and exhaust plenum area.*

D & H Reactor:

- *Incorporated Washington State Department of Ecology's (Ecology) additional/final comments to the Removal Action Work Plan. Final review is underway.*
- *The Interim Closure Data Quality Objective Scoping Summary Report was signed on November 15.*

Green

ACCOMPLISHMENTS continued: *D&D*

233-S Plutonium Concentration Facility Decommissioning Project: *Removal of seven vessels within the facility is being accelerated from the outyears into FY01 and FY02. The total 15 vessels are now being scheduled for removal by June 2002 in lieu of the Detailed Work Plan (DWP) to remove 8 by this date. FY01 work will increase from 3 to 7 vessels. The project is being rebaselined to accommodate the new FY01-FY02 activities. A portion of the accelerated scope is an initiative challenge to be paid for through efficiencies accomplished when performing other ER work. Accelerating vessel removal will allow for completion of 233-S decommissioning approximately one year early and provide a significant dollar savings (the new completion date will be in late FY04).*

During November, other 233-S activities included the following:

- *Installation of additional Alpha Sentry continuous air monitoring (CAM) cabling.*
- *Removal of L-18 vessel electrical conduit from the viewing room second, third, and fourth floors and dismantlement of a fourth floor electrical feed boxes.*
- *Completion of all L-18 vessel low-point checks. Collected approximately two liters of clear liquid and a small amount of red sludge from the low points.*
- *Completion of east weather enclosure set-up for waste removal.*
- *Shipment of 29 cubic meters (1,024 cubic feet) of low level waste to ERDF.*

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: *D&D*

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *D&D*

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *D&D*

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *D&D*

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

- ***TPA Milestones:***

Milestone	Description	Due Date	(F)/(A) Date
M-93-12	*Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation (....)*	*2/28/02*	*

Green

**Regulators have agreed to renegotiate this milestone since DR Reactor ISS is scheduled for completion in FY02. Initial discussions are underway.*

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *D&D*

- ***DNFSB Commitment:***

None identified at this time.

PERFORMANCE OBJECTIVES: *D&D*

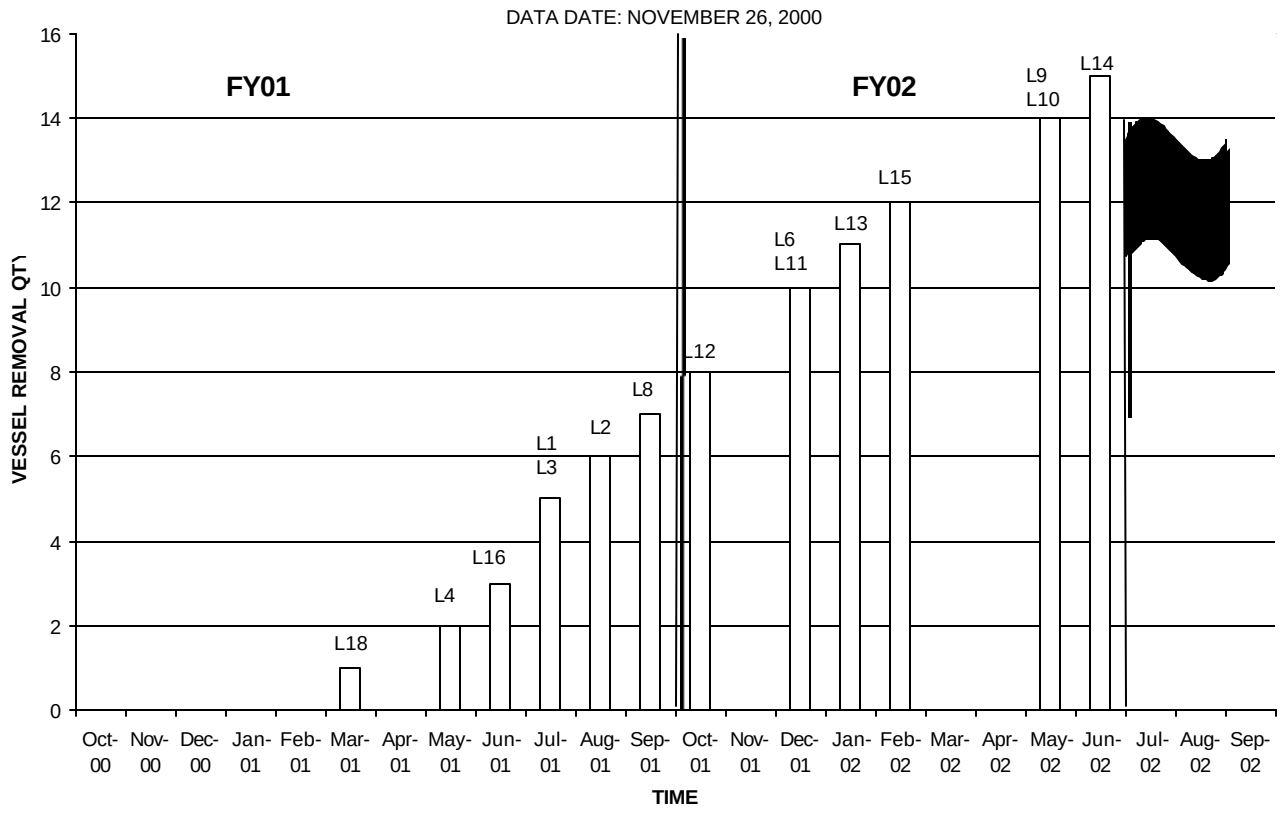
PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
233-S	*13% plus FY02 equivalent portion*	*76%* ***24%***	• *8 vessels by 6/30/02* • *7 vessels by 6/30/02* ***(*Stretch)*** *CV <5.0%; SV <7.5% for PBS ER-06*	*Critical path activity on schedule.* *BCP-21023 approved commencing Stretch.*
ISS	*11%*	*35%* *15%* *35%* *15%*	• *D Reactor Major Tasks by 9/30/01* • *DR Reactor Major Tasks by 9/30/01* • *F Reactor Major Tasks by 9/30/01* • *H Reactor Major Tasks by 9/30/01* *CV <5.0%; SV <7.5% for PBS ER-06*	*Critical path activity on schedule; received authorization funding in December.*

Green

PERFORMANCE MEASURES/METRICS: *D&D*

Green

ACCELERATED VESSEL REMOVAL SCHEDULE



STRETCH AND SUPERSTRETCH GOALS: *D&D*

FY01 D&D "Stretch" Goals	Estimated PI Dollars (K)	Approved BCPs (K)
Remove 4 Vessels by 9/30/01 and a Minimum of 8 Vessels by 6/30/02 (Regular Fee)		
Remove 7 Additional Vessels by 6/30/02 for a total of 15 Vessels (Stretch Only)	*$1,100.0K*	*$1,072.0K*
S/Total D&D Stretch Goals:	***$1,100.0K***	***$1,072.0K***

Green

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE: *RAWD*

- ***Schedule:***

Decommissioning Projects	BCWS	BCWP	Variance
	$K	$K	$K
ER06 Decontamination & Decommissioning	*2,667*	*2,267*	*(400)*
TOTAL D&D	***2,667***	***2,267***	***(400)***

Green

PBS-ER06 – Decontamination and Decommissioning
Schedule Variance = ***($400K); (15.0%)*** *[Last Month: ($318K); (21.6%)]*

Cause: *D Reactor asbestos abatement work and H Reactor ISS planning have been delayed due to deferral of the of Removal Action Work Plan (RAW) approval. Asbestos work plan reviewers expectation was to divide the remedial action work plans by the type of asbestos, which differed from submittal. This new direction was not communicated until after the work plan was submitted for review.*

Resolution: *Received Action Memo in November. Project currently revising RAW. Verbal approval to proceed with some work was received from Ecology in late October.*

Cause: *At 233-S, work is moving into a production mode but still recovering from the slow start caused by delays from a shoe contamination incident in October. Working through waste documentation issues for waste shipping and assaying of packages.*

Resolution: *Hiring more field personnel due to approval of the vessel removal acceleration BCP. In addition, selective overtime will be worked, and a small adjustment in the sequencing of the work should provide schedule recovery in January/February time frame.*

- ***Cost:***

Decommissioning Projects	BCWP	ACWP	Variance
	$K	$K	$K
ER06 Decontamination & Decommissioning	*2,267*	*2,236*	*31*
TOTAL D&D	***2,267***	***2,236***	***31***

Green

PBS-ER06 – Decontamination and Decommissioning
*Cost Variance = $****31K; 1.4%*** *[Last Month: $81K; 7.0%]*

Cause: *As a result of Craft input, duration, resources and equipment planned to prepare and demolish DR Reactor stairwells was reduced.*

Resolution: *Trend prepared to reduce EAC; will incorporate into Lesson Learned for future reactor stairwell demolition. Underruns will be used to perform additional remediation work.*

Cause: *Underrun in Project Support and Rad Monitoring. Engineering focus was on replanning efforts for fuel storage basin (FSB) waste removal and dewatering activities.*

Resolution: *Reflected in EAC. Underrun will be used to perform additional remediation work.*

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued: *RAWD*

Cause: *Crew and equipment assigned to area waiting approval to begin clean fill removal from FSB.*

Resolution: *Will trend additional equipment standby costs.*

REGULATORY ISSUES: *D&D*

D and H Reactor Impacts of TPA Milestones: *The acceleration of the reactor ISS projects is no longer consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestone (M-93-12) for DR Reactor.*

Green

Status: *Initial discussions with the regulators have started which may lead to resolution in the near future. This will need to be discussed as part of RL's 100 Area acceleration vision.*

233-S Process Hood: *To support FY01 decommissioning activities in the 233-S Process Hood, non-destructive assay (NDA) support (provided by FH-PFP) was planned on a full-time basis. To-date, the support has been less than required. Although NDA support has not yet become a critical path item, it has the potential to impact the rate of equipment removal from the process cell.*

Green

Status: *Continue to work with the NDA provider to insure adequate support exists on a continuing basis.*

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *D&D*

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *D&D*

None identified at this time.

INTEGRATION ACTIVITIES: *D&D*

None identified at this time.

Program Management and Support (PM&S)

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end November.
All other data as of December 21, 2000 (unless otherwise noted).

Program Management & Support (PM&S)

ACCOMPLISHMENTS: *PM&S*

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

An evaluation for the use of the storage units (Conex boxes) was initiated. The evaluation was completed for the 100 Areas. The 200 Areas will be completed before the end of December.

A report was completed that identified the ER process of reuse, recycle, and release of DOE real and personal property.

PROGRAM AND PROJECT SUPPORT:

External Affairs: *On November 8, a second workshop addressing "Hanford 2012: Accelerating Cleanup and Shrinking the Site" was conducted for the Hanford Advisory Board (HAB) Committee members in order to provide a better understanding of the drivers, assumptions, and key policy issues underlying RL's new management direction for site cleanup.*

ENGINEERING AND TECHNOLOGY:

Design Engineering: *The first phase was completed for the waste minimization/pollution prevention value study. Waste streams having potential for waste minimization were identified for further screening and evaluation.*

Environmental Technologies: *A waste management/transportation workflow process with time and resource requirements was developed as part of the ERC effort to improve the efficiency for designating, packaging, and shipping of waste. This process improvement, using the Six Sigma productivity improvement methodology, will increase the overall ability of the ERC to manage a higher volume of waste while continuing to meet regulatory deadlines and project schedules.*

PLANNING AND CONTROLS:

Work progressed in developing the ER Project Baseline Update (multi-year work plan). This update, originally planned for completion on December 15, is now planned to be complete by January 10, to incorporate DOE adjustments. The Baseline Update will form the basis for the FY02 Budget Update, the annual update of the DOE, Headquarters (HQ) Baseline Integrated Planning, Accountability, and Budgeting System (IPABS) database, and the initial FY03 Budget submittal.

Green

SAFETY / ISMS / CONDUCT OF OPERATIONS: *PM&S*

See Executive Summary.

BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVMENT: *PM&S*

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *PM&S*

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *PM&S*

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

- ***TPA Milestones:***

None identified at this time.

- ***DNFSB Commitment:***

None identified at this time.

PERFORMANCE OBJECTIVES: *PM&S*

Comprehensive Measures–Approximately 10% Available Fee Pool Total Positive Value Total Negative Value cannot exceed earnings under the Comprehensive PI

Comprehensive Measure	Fee Allocation	Task	Status
Safety	*Negative Fee up to 50% of fee available for comprehensive PI*	• *The Contractor shall protect worker safety and health, public safety and health, and the environment.*	*No concerns identified during November.*
Operational Excellence	*Positive Fee up to 55% of fee available for comprehensive PI*	• *Migrate systems to facilitate PBS restructuring in FY02 – 75%* • *Rebaseline completed per Baseline Updating Guidance (BUG) – 20%* • *Integrate technology into Projects – 10%* • *Achieve pollution prevention/waste minimization – 10%*	*All activities on schedule for completion per DOE revised schedule.*
Effective Leadership	*Positive Fee up to 45% and Negative Fee up to 50% of fee available for comprehensive PI*	• *Management Effectiveness* • *Customer Satisfaction* • *Effective Financial Management*	*No concerns identified during November.*

Green

PERFORMANCE MEASURES/METRICS: *PM&S*

**A technology deployment plan will be developed in January 2001 as identified in the DWP.*

Technology Deployment	PBS	Planned Date	(F)/(A) Date
***N/A**	N/A	N/A	N/A

STRETCH AND SUPERSTRETCH GOALS: *PM&S*

None identified at this time.

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE: *RAWD*

- ***Schedule:***

Program Management & Support	BCWS	BCWP	Variance
	$K	$K	$K
ER10 ERC Program Management & Support	*4,538*	*4,447*	*(91)*
ER10 RL Program Management & Support	*913*	*309*	*(604)*
TOTAL PM&S	***5,451***	***4,756***	***(695)***

Green

PBS-ER10 – Program Management and Support
Schedule Variance = ***($695K); (12.7%)*** *[Last Month: ($413K); (14.9%)]*

Cause: *Assessments and surveillances are behind schedule due to staff supporting 10 CFR (Code of Federal Regulation) 830.120 reviews.*

Resolution: *The number of assessments is being evaluated in an effort to reduce the number required.*

- ***Cost:***

Program Management & Support	BCWP	AWP	Variance
	$K	$K	$K
ER10 ERC Program Management & Support	*4,447*	*4,217*	*230*
ER10 RL Program Management & Support	*309*	*309*	*0*
TOTAL PM&S	***4,756***	***4,526***	***230***

Green

PBS-ER10 – Program Management and Support
Cost Variance = ***$230K; 4.8%*** *[Last Month: $271K; 11.5%]*

Cause: *Late billing on site-wide assessments.*

Resolution: *RL is discussing billing/timing with other site contractors/government agencies.*

REGULATORY ISSUES: *PM&S*

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *PM&S*

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *PM&S*

None identified at this time.

INTEGRATION ACTIVITIES: *PM&S*

Safety and Health: *BHI actively supported the DOE ISMS Workshop held in Pasco, Washington on December 5-6. 31 BHI personnel registered for the workshop, and a poster display was developed. BHI gave five presentations, and five individuals served as Breakout Session Coordinators/Support Personnel. BHI's President participated in the Environmental Management panel discussion.*

Environmental Technologies: *A herbicide spray schedule was completed for the Hanford waste sites. ER worked with FH, and CHG to integrate spraying activities and maximize effectiveness of equipment and personnel resources across the Hanford Site.*

A CERCLA training module was developed and presented to contractors and DOE personnel at the DOE's Paducah Site in Kentucky. The training module, requested by the Paducah ER Program, focused on the ER lessons learned and streamlining successes achieved at the Hanford Site during the past six years.

Technology Applications: *BHI participated jointly with RL and FH in a presentation at the Technology Information Exchange Conference in Augusta, Georgia on November 14. The presentation addressed the calculation of benefits derived from deployment of new and innovative technologies.*

Green

Environmental Management Performance Report

January 2001

Section C - Central Plateau Information

- **Groundwater/Vadose Zone Integration Project**
- **Surveillance/Maintenance & Transition Projects**

The new 186-N water plant in the 100 N Area

REDOX Facility

The Brokk™ in the 221-U Canyon

Abatement activities on the B Reactor roof

Unloading purgewater truck at the 600 Area

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end November.
All other data as of December 21 (unless otherwise noted).

Department of Energy
Richland Operations Office

Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0101002.2

Groundwater/Vadose Zone Integration Project (GW/VZ)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end November.
All other data as of December 21, 2000 (unless otherwise noted).

Groundwater/Vadose Zone Integration Project(GW/VZ):

ACCOMPLISHMENTS: *GW/VZ*

GW/VZ INTEGRATION PROJECT:

System Assessment Capability: *History matching was completed on release models and ecological risk assessment model for the SAC Rev. 0. This effort demonstrated that the results predicted by SAC Rev. 0 are consistent with predictions made with past assessments, which indicates the models are ready for use in the initial assessment.*

Science and Technology: *The 200 Area tank farm SX-108 contaminated samples were delivered to principal investigators, and experiments were initiated. These sample experiments will be used to address contaminant migration issues for input to the River Protection Program (RPP) SX Field Investigation Report.*

GROUNDWATER MANAGEMENT:

In Situ Redox Manipulation Project: *Ten In Situ Redox Manipulation (ISRM) Project wells were chemically injected in FY00 as planned. Withdrawal was also completed from nine wells. Withdrawal from the remaining well is scheduled for completion in December.*

Long-Term Groundwater Monitoring: *A field survey was completed for wells located within 30.5 meters (100 feet) of waste sites (meeting criteria in Section 3.2 in the purge water strategy). It is estimated that an additional 280 wells will require containment based on these criteria. The draft of the revised implementation list was provided to RL on November 21 for review. The revised implementation list is on hold pending renegotiation of the purge water strategy document. All purge water will continue to be collected until that time.*

Green

RCRA Well Installation: *A total of 10 wells are to be installed by December 31 to meet Tri-Party Agreement Milestone M-24-00L. Through November, 5 are complete and sample ready, 4 wells are installed, and 1 well is being drilled. The milestone is on schedule for completion by December 31.*

Tritium Investigation: *The soil gas/groundwater sample and analysis plan was revised regarding the tritium investigation of the 618-11 Burial Ground. Results were also received from the groundwater grab samples and are being evaluated.*

Purgewater Strategy: *Work is progressing in addressing purgewater strategy compliance requirements for the Hanford Site. A letter requesting Site contractors' suggestions for improving the current purgewater strategy documentation was issued on November 20. A kickoff meeting is being organized with the regulators to discuss the waste management impacts of implementing the Purgewater and Investigation Derived Waste (IDW) Strategies. This meeting is being planned for early January 2001. The three agencies need to agree on modifying the two strategies to enhance clarity and legal defensibility, and to maintain the efficiencies they provide to waste management activities.*

ACCOMPLISHMENTS continued: *GW/VZ*

Summary of Five Pump and Treat Systems: *All groundwater pump and treat systems operated above the planned 90% availability levels in November. Since system inception, the five pump and treat systems have processed over 4.5 billion liters of groundwater, removing approximately 4,812 kilograms of carbon tetrachloride, 208 kilograms of chromium, and 0.92 curies of strontium. Approximately 210 million liters of groundwater have been processed in FY01, removing approximately 230 kilograms of carbon tetrachloride, 14 kilograms of chromium, and 0.038 curies of strontium.*

100-HR-3 Pump and Treat System: *Approximately 21.3 million liters of groundwater were processed in November removing approximately 2.8 kilograms of chromium. 49.1 million liters have been processed in FY01, with 7.3 kilograms of chromium removed. Approximately 992 million liters of groundwater have been processed from inception to date, with 98.9 kilograms of chromium removed.*

100-KR-4 Pump and Treat System: *Approximately 24.8 million liters of groundwater were processed in November removing approximately 3.0 kilograms of chromium. 58.6 million liters have been processed in FY01, with 7.1 kilograms of chromium removed. Approximately 868 million liters of groundwater have been processed from inception to date, with 109.2 kilograms of chromium removed.*

100-NR-2 Pump and Treat System: *Approximately 8.7 million liters of groundwater were processed in November, removing approximately 0.015 curies of strontium. 19.5 million liters have been processed in FY01, with 0.037 curies of strontium removed. Approximately 562 million liters have been processed from inception to date, with 0.920 curies of strontium removed.*

200-UP-1 Pump and Treat System: *Approximately 7.1 million liters of groundwater were processed in November with approximately 16.3 million liters processed in FY01. From inception to date, approximately 453 million liters have been transported to the Effluent Treatment Facility (ETF) for processing. 343.0 million liters were previously processed prior to utilizing the ETF.*

Green

200-ZP-1 Pump and Treat System: *Approximately 30.1 million liters of groundwater were processed during November removing 99.1 kilograms of carbon tetrachloride. 66.5 million liters have been processed in FY01, with 230.4 kilograms of carbon tetrachloride removed. From inception to date, approximately 1.3 billion liters have been processed, with 4,812 kilograms of carbon tetrachloride removed.*

200-ZP-2 Vapor Extraction System: *The 200-ZP-2 soil vapor extraction system was placed off-line in FY00, in order to monitor and evaluate any rebounding of contaminant to static conditions. The resulting data will be used to evaluate the effectiveness of remediation on contaminants within the vadose zone. The passive vapor extraction system (installed in selected vadose zone wells) is performing as designed. Monthly sampling will continue. A meeting was held on November 7 with the regulators, RL and contractors to discuss a path forward on Dense Non-Aqueous Phase Liquid (DNAPL) investigation. It was agreed that the Partitioning Interwell Tracer Test (PITT) was too expensive for a speculative location of the test. The PITT test will be put on hold while further conventional characterization is performed.*

200 AREA ASSESSMENTS:

A Tri-Party Agreement change package was approved by the regulators on November 6 that replaced the 200-PW-4 operable unit work plan with the 200-PW-1 operable unit work plan, which has higher risk sites for carbon tetrachloride contamination.

SAFETY/ISMS/CONDUCT OF OPERATIONS: *GW/VZ*

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *GW/VZ*

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *GW/VZ*

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *GW/VZ*

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *GW/VZ*

- ***TPA Milestones:***

Milestone	Description	Due Date	(F) / (A) Date
M-13-00K	*Submit One (1) 200 NPL RI/FS (RFI/CMS) Work Plan*	*12/31/00*	*12/21/00 (F)*
M-13-25	*Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan*	*12/31/00*	*12/21/00 (F)*
M-24-46	*Install Two (2) Additional Wells at SST WMA S-SX*	*12/31/00*	*9/14/00 (A)*
M-24-47	*Install Four (4) Additional Wells at SST WMA T*	*12/31/00*	*12/29/00 (F)*
M-24-48	*Install Four (4) Additional Wells at SST WMA TX-TY*	*12/31/00*	*12/29/00 (F)*
M-24-00L	*Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required*	*12/31/00*	*12/29/00 (F)*
M-16-27A	*Complete 100-HR-3 Phase I, ISRM Barrier Emplacement*	*12/31/00*	*11/01/00 (A)*
M-24-49	*Install Four (4) Additional Wells at SST WMA S-SX*	*4/30/01*	*2/13/01 (F)*
M-24-50	*Install One (1) Additional Well at SST WMA TX-TY*	*4/30/01*	*1/05/01 (F)*
M-13-26	*Submit Plutonium/Organic-Rich (200-PW-1) Work Plan*	*6/30/01*	*6/30/01 (F)*
M-15-38A	*Submit Draft A Gable Mountain Pond / B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond / B Pond and Ditch Cooling Waste Group Proposed Plan / Proposed RCRA Permit Modification*	*11/30/01*	*11/30/01 (F)*
M-13-00L	*Submit 3 200 NPL RI/FS (RFC/CMS) Work Plans*	*12/31/01*	*12/31/01 (F)**
M-16-27B	*Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)*	*12/31/01*	*12/31/01 (F)*
M-24-00M	*Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in Calendar Year 2001 if Required*	*12/31/01*	*12/31/01 (F)*

Green

**M-13 series milestones will require renegotiations and were discussed with the regulators at the last TPA Quarterly Review on December 19. The number of work plans currently identified for submittal cannot be accomplished due to streamlined approach to 200 Area assessment.*

- ***DNFSB Commitment:***

None identified at this time.

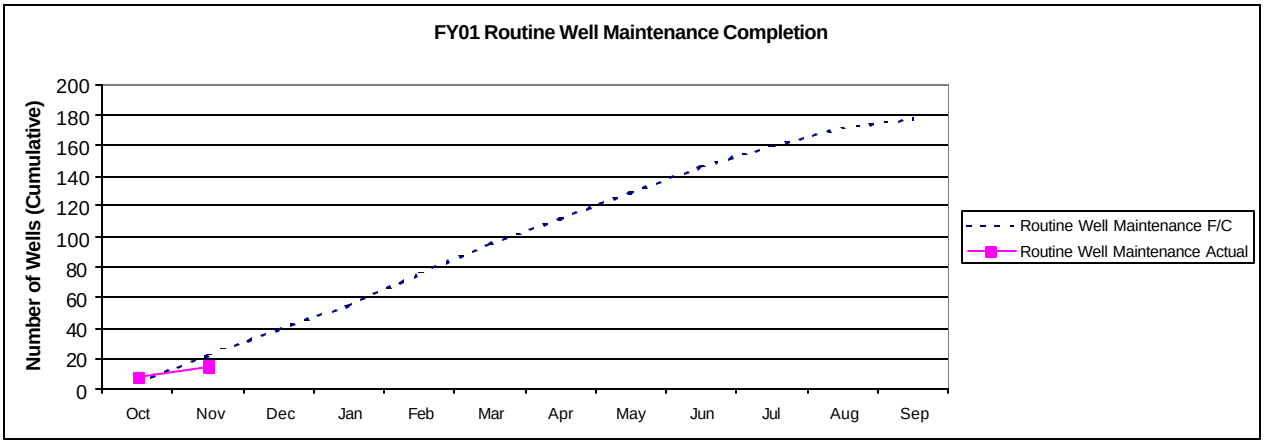
PERFORMANCE OBJECTIVES: *GW/VZ*

PI	% FY01 Fee Pool Less 10% for Comprehensive	PI Allocation of Fee	Task	Status
GW – ISRM Barrier	*3%*	*3%*	• *Drill 24 wells and inject sodium dithionite by 9/30/01* *CV <5.0%; SV <7.5% for BHI portion of ER-08*	*Critical path activities on schedule. Schedule variance impacted by tritium investigation will be incorporated into baseline via BCP-21003.*
GW – 618-11 Tritium Plume	*3%*	***3%***	• *Drill wells to establish 20,000 pCi/L Contour, Collect Groundwater Samples by 9/30/01* ***(*Stretch)*** *CV <5.0%; SV <7.5% for BHI portion of ER-08*	*Work has commenced via approved trend.*

Green

PERFORMANCE MEASURES/METRICS: *GW/VZ*

Green



		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Routine Well Maintenance	F/C	5	22	39	55	76	95	112	129	146	159	171	177
	Actual	8	15										

STRETCH AND SUPERSTRETCH GOALS: *GW/VZ*

FY01 GW/VZ "Stretch" Goals	Estimated PI Dollars (K)	Approved BCPs (K)
Tritium Plume at 618-11 Burial Ground – Collect GW Samples by 9/30/01	*$500.0K*	
S/Total GW – Vadose Zone Stretch Goals:	***$500.0K***	***$0K***

Green

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *GW/VZ*

- ***Schedule:***

GW/VZ Integration Project	BCWS	BCWP	Variance
	$K	$K	$K
ER02 200 Area Remedial Actions	*377*	*256*	*(121)*
ER08 Groundwater Management	*4,649*	*3,787*	*(862)*
VZ01 Groundwater/Vadose Zone	*2,407*	*1,862*	*(545)*
TOTAL Groundwater	***7,433***	***5,905***	***(1,528)***

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)
Schedule Variance = ***($121K); (32.1%)*** *[Last Month: ($69K); (38.3%)]*

Cause: *Work on the Gable Mountain/B Pond Feasibility Study is behind schedule due to lack of resource availability.*

Resolution: *Interviews for open requisitions are taking place; schedule is expected to be recovered.*

PBS-ER08 – Groundwater Management
Schedule Variance = ***($862K); (18.5%)*** *[Last Month: ($505K); (21.0%)]*

Cause: *RCRA well drilling schedule impact caused by the ERC priority for tritium drilling at the 618-11 waste site (one drilling crew released two weeks to support this exercise) and rad contaminated soil encountered during C3-122 well drilling.*

Resolution: *Well drilling on C3-122 was resumed on November 30, with an alternate drilling rig. Decon of the original rig was started the week of December 7.*

PBS-VZ01 – Groundwater/Vadose Zone
Schedule Variance = ***($545K); (22.6%)*** *[Last Month: ($384K); (26.3%)]*

Cause: *Expert Panel has requested a revision to planned meetings.*

Resolution: *BCP submitted to modify schedule; no cost impact.*

Cause: *Data gathering for SAC took longer than planned due to additional inventory requirements.*

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued): *GW/VZ*

Resolution: *No overall impact to SAC schedule; work to complete in December.*

Cause: *Distribution of contaminated samples for S&T behind schedule due to receipt of samples from SX-108 later than planned and unresolved ES&H issues. Contracts were delayed for other national laboratory involvement in Field Investigation at Representative Sites, Vadose Zone Transport Field Study, and Transport Modeling tasks because of Continuing Resolution.*

Resolution: *SX-108 samples distributed; contracts with the other national laboratories now in place; offline schedules prepared for tasks to ensure completion of milestones for input to RPP S-SX Field Investigation Report.*

- ***Cost:***

GW/VZ Integration Project	BCWP	ACWP	Variance
	$K	$K	$K
ER02 200 Area Remedial Actions	*256*	*213*	*43*
ER08 Groundwater Management	*3,787*	*3,697*	*90*
VZ01 Groundwater/Vadose Zone	*1,862*	*1,788*	*74*
TOTAL Groundwater	***5,905***	***5,698***	***207***

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)
Cost Variance = ***$43K; 16.8%*** *[Last Month: $9K; 8.1%]*

Cause: *Public review of tank waste group work plan was not required.*

Resolution: *Underrun will be used to perform additional remediation work..*

PBS-ER08 – Groundwater Management
Cost Variance = ***$90K; 2.4%*** *[Last Month: $302K; 15.9%]*

Cause: *Offsite analysis: underrun is largely due to over-accruals for FY00 work.*

Resolution: *Utilize for funding shortfall.*

PBS-VZ01 – Groundwater/Vadose Zone
Cost Variance = ***$74K; 4.0%*** *[Last Month: $159K; 14.8%]*

Cause: *Activities relating to SAC historical matching have been more challenging than planned.*

Resolution: *Overrun will be reflected in EAC.*

Cause: *National Academy of Sciences (NAS) meeting cost less than anticipated to date.*

Resolution: *Will continue to interface with committee and monitor costs.*

REGULATORY ISSUES: *GW/VZ*

Monitoring Wells: *Tritium investigation is being conducted near the 618-11 Burial Ground.*

Green

Status: *The groundwater grab results from the boreholes drilled for the 618-11 soil gas investigation have been evaluated. The groundwater grabs from boreholes C3264 and C3265 were to assess tritium levels in the groundwater and assist in the determination of a correlation between groundwater concentrations and the measured helium ratios.*

As previously reported, borehole C3264 (about midway along the northern boundary of the 618-11 Burial Ground) was completed to groundwater, and a groundwater grab sample was collected on October 9. The initial results from the C3264 groundwater grab indicated tritium levels less than 30,000 pCi/liter. A split sample taken by the Department of Health gives the result of about 6,000 pCi/liter. The detection limits were much lower at laboratory used by the Department of Health.

Borehole C3265 (in the Energy Northwest parking lot, east of the 618-11 Burial Ground) was completed to groundwater, and a groundwater grab sample was collected on October 13. The results of this sample are 1.5 million pCi/liter. This borehole is about 80 meters downgradient from well 699-13-3A. The split sample taken by the Department of Health corroborates this result.

Currently, a BCP is being prepared to rescope the FY01 effort to address the groundwater plume and minimize soil gas work.

200-ZP-2: *Need for enhanced characterization, enhance removal efficiency, and Dense Non-Aqueous Phase Liquid (DNAPL) investigation.*

Green

Status: *A preliminary cost estimate and proposal submitted by a potential contractor have been reviewed by a subpanel of the GW/VZ Integration Project's Expert Panel. A meeting was held on November 7 with the regulators, DOE, and contractors to discuss a path forward on DNAPL investigation. It was agreed that the Partitioning Interwell Tracer Test (PITT) was too expensive for a speculative location of the test. The test will be put on hold for the time being. The installation of a groundwater well close to the Plutonium Finishing Plant, as well as the deepening of two groundwater wells near the Z-9 crib, are scheduled to be completed this fiscal year to obtain characterization information. A meeting will be held in late December with the regulators, DOE, and contractors to plan characterization efforts. Given that the PITT is on hold, the soil vapor extraction system will start operations April 1, 2001.*

Purgewater Secondary Waste Management: *There is a discrepancy in the interpretation of the Purgewater Strategy applicability. Direction was given by RL to become compliant with all land disposal restriction (LDR) requirements.*

Green

Status: *An interim phase was initiated, and a screening was completed for the potential listed waste codes to be applied. Activities on Site will be conducted as planned, with a conservative application of the listed waste codes to the secondary wastes. A long-term resolution has also been accepted by RL, to conduct a Listed Waste Applicability Assessment to minimize the listed waste codes to be applied on this waste stream. A letter coordinating the Site contractors' suggestions for improving the Purgewater Strategy was issued November 20 per DOE's request. A kickoff meeting is being organized with the regulators to discuss the waste management impacts of implementing the Purgewater and Investigation Derived Waste (IDW) Strategies. This meeting is being planned for early January 2001. The three agencies need to agree on modifying the two strategies to enhance clarity and legal defensibility, and to maintain the efficiencies they provide to waste management activities.*

REGULATORY ISSUES continued: *GW/VZ*

M-13-00x and M-20-xx Series: *RL management, working closely with the Environmental Protection Agency (EPA), Ecology, and the Hanford Advisory Board (HAB), has developed a more streamlined approach for the remediation of the 200 Area non-tank farm related operable units on the Hanford Site. The existing baseline for soil characterization in the 200 Area Remedial Action Project shows a completion of the characterization of 23 operable units by the year 2008. The new streamlined approach calls for completion of the characterization of 12 representative analogous waste site operable units by 2008.*

Yellow

Status: *RL will work with the regulators to establish revised interim M-13 and M-20 milestones based on the improved approach to 200 Area assessment which supports the Hanford site outcomes. It is anticipated that M-13-00x major milestone adjustments can be addressed with the regulators once the revised FY02 DOE budget is approved in the Spring of FY01.*

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *GW/VZ*

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *GW/VZ*

None identified at this time.

INTEGRATION ACTIVITIES: *GW/VZ*

ER continues to work closely with the River Protection Project (RPP) on vadose zone project plans and issues. RPP project manager presents related GW/VZ status to ER management at monthly ER project reviews.

Green

Surveillance / Maintenance and Transition Projects (SM&T)

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end November.
All other data as of December 21, 2000 (unless otherwise noted).

Surveillance/Maintenance & Transition Projects (SM&T):

ACCOMPLISHMENTS: *SM&T*

Surveillance and Maintenance: *S&M activities that were performed in November to ensure inactive facility integrity and safety included the following:*

- *Completion of major roof repairs at B Reactor. Repairs included sealing damaged sections of the roof, caulking joint cracks on the concrete panels, and isolating the supply ventilation ducting leading into the building. Roof repairs are in support of an upgrade effort at B Reactor.*
- *Completion of sealing the ductwork at B Reactor.*
- *Receipt of approval for Tri-Party Agreement change request for M-093-06-01, "Submit B Reactor S&M Plan for EPA Approval" from RL and EPA on November 16. This change request revises the completion date for the B Reactor S&M Plan from June 30, 2001 to a "to be determined" date.*
- *Removal of the 18-meter (60-foot) sample line from the PUREX stack. The sample line shutdown will result in lower maintenance costs at PUREX.*
- *Completion of roof repairs (six sections) on U Plant (221-U Building). Three additional sections have been identified for repair/replacement. A baseline change proposal (BCP) will be prepared for the additional repair work next spring or early summer.*
- *Completion of surveillance for the fission product trap area in N Reactor. Preliminary results confirmed evaporation was the cause for liquid level reduction and also validated the correct operation of the bubble system.*
- *Began work on interim stabilization of the 218-W-2A waste burial site. The burial ground is an industrial waste burial site containing 19 trenches of miscellaneous radioactive solid waste from facilities located in the 200 West Area. Types of waste include tanks, concrete blocks, facility wastes, and process equipment.*

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: *SM&T*

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: *SM&T*

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: *SM&T*

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): *SM&T*

- ***DOE Secretarial:***

None identified at this time.

- ***DOE EM Performance Agreement:***

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: *SM&T*

- ***TPA Milestones:***

None identified at this time.

- ***DNFSB Commitment:***

None identified at this time.

PERFORMANCE OBJECTIVES: *SM&T*

None identified at this time.

PERFORMANCE MEASURES/METRICS: *SM&T*

None planned in FY01.

STRETCH AND SUPERSTRETCH GOALS: *SM&T*

None identified at this time.

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *SM&T*

- ***Schedule:***

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance
	$K	$K	$K
ER05 Surveillance & Maintenance	*2,289*	*2,138*	*(151)*
ER07 Long-Term Surveillance & Maintenance	*2*	*2*	*0*
TOTAL SM&T	***2,291***	***2,140***	***(151)***

Green

PBS-ER05 – Surveillance and Maintenance
Schedule Variance = ***($151K); (6.6%)*** *[Last Month: ($134K); (12.0%)]*

Cause: *The time required to review/evaluate new sampling and video equipment specified in the HEXONE Tank Project data quality objective (DQO) has taken longer than originally planned.*

Resolution: *Sampling and video taping of the tanks interior contents have been rescheduled to occur at the same time compressing the existing schedule. Recovery is anticipated in January.*

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS $59K for FY01)
Schedule Variance = N/A

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued): *SM&T*

- ***Cost:***

Surveillance/Maintenance & Transition Project	BCWPS	ACWP	Variance
	$K	$K	$K
ER05 Surveillance & Maintenance	*2,138*	*2,002*	*136*
ER07 Long-Term Surveillance & Maintenance	*2*	*0*	*2*
TOTAL SM&T	***2,140***	***2,002***	***138***

Green

PBS-ER05 – Surveillance and Maintenance
Cost Variance = ***$136K; 6.4%*** *[Last Month: $148K; 15.1%]*

Cause: *Facility maintenance execution is being implemented in a different sequence than originally planned.*

Resolution: *A project baseline change will be processed to re-align work scope to revised plan.*

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS $59K for FY01)
Cost Variance = N/A

REGULATORY ISSUES: *SM&T*

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): *SM&T*

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): *SM&T*

None identified at this time.

INTEGRATION ACTIVITIES: *SM&T*

None identified at this time.